

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (currently amended) A device for controlling a characteristic of an image signal superimposed on a specimen image, comprising:
a main optical system configured to refract light emitted from a specimen into a main beam path;
a superimposition apparatus in a fixed relationship to the main optical system, configured to generate the image signal;
a superimposing reflector configured to reflect the image signal generated by the superimposition apparatus into the main beam path and to superimpose the image signal onto the specimen image;
an image measurement unit in a fixed relationship to the main optical system, configured to measure a ~~characteristic~~ brightness of the specimen image; and
a controller configured to adjust a ~~characteristic~~ brightness of the image signal generated by the superimposition apparatus in response to a measurement by the image measurement unit of the ~~characteristic~~ brightness of the specimen image.
 2. (cancelled)
 3. (currently amended) The device as in claim 2 ~~1~~, wherein the image measurement unit is configured to measure a spatial brightness distribution of the specimen image.
 4. (currently amended) The device as in claim 1, wherein the ~~characteristic of the specimen image and the characteristic of the image signal are~~ image measurement unit is further configured to measure one selected from the group of color and contrast and the controller is further configured to adjust the selected one of color and contrast.
 5. (original) The device as in claim 4, wherein the image measurement unit is configured to measure a spatial color or contrast distribution of the specimen image.

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6. (original) The device as in claim 1, wherein the superimposition apparatus is one of a display and monitor.
 7. (currently amended) The device as in claim 1, wherein the image measurement unit is configured to measure the ~~characteristic~~ brightness of the specimen image by directly measuring light emitted from the specimen and not refracted by the main optical system.
 8. (currently amended) The device as in claim 1, wherein the image measurement unit is configured to measure the ~~characteristic~~ brightness of the specimen image by measuring light emitted from the specimen and refracted by the main optical system into the main beam path.
 9. (original) The device as in claim 8, further comprising a beam splitter configured to reflect a portion of the specimen image from the main beam path to the image measurement unit.
 10. (currently amended) The device as in claim 1, wherein the image measurement unit is configured to measure a ~~characteristic~~ brightness of the entire specimen image.
 11. (currently amended) The device as in claim 1, wherein the image measurement unit is configured to measure ~~characteristics~~ brightness of individual regions of the specimen image.
 12. (original) The device as in claim 11, wherein the individual regions are individual pixels.
 13. (currently amended) The device as in claim 11, wherein the image measurement unit is configured to measure ~~characteristics~~ brightness of those individual regions that are in a viewer's line of sight.

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14. (currently amended) The device as in claim 1, wherein the controller is configured to adjust a ~~characteristic~~ brightness of the entire image signal generated by the superimposition apparatus in response to the measurement by the image measurement unit.
 15. (currently amended) The device as in claim 1, wherein the controller is configured to adjust ~~characteristics~~ brightness of individual regions of the image signal generated by the superimposition apparatus in response to the measurement by the image measurement unit.
 16. (original) The device as in claim 15, wherein the individual regions are individual pixels.
 17. (currently amended) The device as in claim 16, wherein the controller is configured to adjust ~~characteristics~~ brightness of individual pixels of the image signal generated by the superimposition apparatus in response to measurements by the image measurement unit of the ~~characteristics~~ brightness of the corresponding pixels of the specimen image.
 18. (currently amended) The device as in claim 15, wherein the controller is configured to adjust ~~characteristics~~ brightness of individual regions of the image signal generated by the superimposition apparatus in response to measurements by the image measurement unit of the ~~characteristics~~ brightness of the corresponding regions of the specimen image.
 19. (currently amended) The device as in claim 1, further comprising a manual input unit for providing a manual input signal from a viewer to the controller, wherein the controller is configured to adjust the ~~characteristic~~ brightness of the image signal generated by the superimposition apparatus in response to the manual input signal and the measurement by the image measurement unit.

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20. (original) The device as in claim 19, wherein the manual input unit is operable remotely from the device.
 21. (original) The device as in claim 1, wherein the image measurement device is one of a video camera and a CCD.
 22. (currently amended) A method for controlling a ~~characteristic~~ brightness of an image signal superimposed on a specimen image, comprising:
 providing a specimen;
 producing a specimen image for viewing by a viewer;
 measuring a ~~characteristic~~ brightness of the specimen image;
 generating a control signal based at least in part on the ~~characteristic~~ brightness of the specimen image;
 producing an image signal having a ~~characteristic~~ brightness that is controlled by the control signal; and
 superimposing the image signal on the specimen image for viewing by the viewer.
 23. (currently amended) The method as in claim 22, ~~wherein the characteristic further comprising measuring one of color and contrast of the specimen image and producing an the characteristic of the image signal are having one of brightness, color and contrast that is controlled by the control signal.~~
 24. (currently amended) The method as in claim 22, wherein measuring a ~~characteristic~~ brightness of the specimen image comprises reflecting a portion of the specimen image via a beam splitter toward an image measurement unit.
 25. (currently amended) The method as in claim 22, wherein producing an image signal comprises producing an image signal having individual regions, wherein ~~characteristics~~ brightness of the individual regions are separately controlled by the control signal.

26. (original) The method as in claim 25, wherein the individual regions are individual pixels.
27. (currently amended) A device for controlling a characteristic of an image signal superimposed on a specimen image, comprising:
 a microscope configured to produce a specimen image;
 a superimposition apparatus in a fixed relationship to the microscope, configured to generate the image signal; and
 an image measurement unit in a fixed relationship to the microscope, configured to measure a ~~characteristic~~ brightness of the specimen image,
 wherein a ~~characteristic~~ brightness of the image signal generated by the superimposition apparatus is automatically adjusted in response to a measurement by the image measurement unit of the ~~characteristic~~ brightness of the specimen image.
28. (original) The device as in claim 27, wherein the microscope is a surgical stereomicroscope.
29. (cancelled)
30. (currently amended) The device as in claim 27, wherein the ~~characteristic of the specimen image and the characteristic of the image signal are~~ image measurement unit is further configured to measure one selected from the group of color and contrast and the superimposition apparatus is further configured to adjust the selected one of color and contrast.
31. (currently amended) The device as in claim 27, wherein ~~characteristics~~ brightness of individual regions of the image signal generated by the superimposition apparatus are individually adjusted in response to measurements by the image measurement unit of ~~characteristics~~ brightness of corresponding regions of the specimen image.

32. (original) The device as in claim 31, wherein the individual regions of the image signal and the corresponding regions of the specimen image are pixels.
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Amendments to the Drawings:

Adding new drawing – Fig. 4 Please add the attached 1 sheet (Fig. 4) of formal drawings to the drawings originally filed with the application.

The drawing sheet attached in connection with the above-identified application containing Figure 4 is being presented as a new formal drawing sheet to be added to the previously submitted drawing sheets. Figure 4 merely illustrates structure that is disclosed in the specification, and therefore does not constitute new matter. Specifically, paragraphs [0011] (which does not mention refraction) and [0012], and claim 7 disclose an alternative embodiment in which light from the specimen is received directly on the image measuring unit without being refracted by the main optical system. This obviously requires the image measuring unit to directly view the specimen, which is the configuration shown in new FIG. 4.